

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/09657

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

The independent claims 1 and 11 are not supported by the description as required by Article 6 PCT, as their scope is broader than justified by the description and drawings. The reasons therefor are the following:

The Preliminary Examination Guidelines III, 6.1 and 6.2 stipulate the extent of generalisation permissible in a claim. In the present case the invention is concerned with advances in a known technology, namely detection of the Acquisition Indicator CHannel (AICH) in a User Equipment (UE) using UMTS technology. This is clear from the state of the art (cf. page 1, line 8 - page 2, line 12) the problem of the state of the art (cf. page 2, lines 14-18) as well as the solution proposed in the description. The independent claims 1 and 11 go beyond the invention in that they concern detection of any signal.

It is to be noted that the general statements as to the invention (cf. page 2, line 21 - page 7, line 3) do not provide the necessary support in that they only broadly define the problem to be solved by the invention and/or amount to repeating the content of the claims.

In claims 1 and 11 the wording at least one signal group and one or more weight factors allows the interpretation that the invention is to be used also with a signal comprising exactly one group. In that case the subject-matter of claims 1 and 11 does not differ from the state of the art as described on page 2, lines 4-7, leading to a contradiction with the description.

Claims 1 and 11 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined.

In claims 1 and 11 the feature applying a weight factor ... (cf. page 23, lines 13-17 resp. page 25, lines 9-11) is defined by the result to be achieved contrary to the Preliminary Examination Guidelines III, 4.7, in that the weight factors are selected to preserve an orthogonality relation. Apart from the fact that it is unclear what orthogonality relation is to be preserved and according to which reference the preservation is to be defined, such a definition is only allowed if the invention either can only be defined in such terms or cannot otherwise be defined precisely without unduly restricting the scope of the claims. In the present case it seems possible to define the feature adequately by adding the further features of claims 6 resp. 16.

The search was directed to claims for methods and devices for detecting AICH signals in which above objections are overcome.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B1/707

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/026543 A1 (HWANG SUNG-OH ET AL) 4 October 2001 (2001-10-04) paragraph '0295!; figure 16	
A	"Universal Mobile Telecommunications System (UMTS); Physical channels and mapping of transport channels onto physical channels (FDD) (3GPP TS 25.211 version 4.3.0 Release 4)" ETSI TS 125 211 V4.3.0, December 2001 (2001-12), XP002263982 SOPHIE ANTIPOLIS, FR cited in the application paragraph '5.3.3.7!	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

5 December 2003

Date of mailing of the international search report

08/01/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09657

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001026543	A1	04-10-2001	
		AU 760513 B2	15-05-2003
		AU 3614701 A	27-08-2001
		CA 2400272 A1	23-08-2001
		CN 1419748 T	21-05-2003
		EP 1247349 A1	09-10-2002
		JP 2003523686 T	05-08-2003
		WO 0161877 A1	23-08-2001
		KR 2001082724 A	30-08-2001
		KR 2001085329 A	07-09-2001